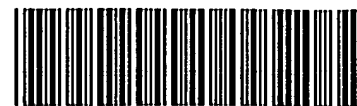# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/553,273_

Source: _PCT/IP_

Date Processed by STIC: _10/24/05_

ENTERED

PCT

RAW SEQUENCE LISTING   DATE: 10/24/2005
PATENT APPLICATION: US/10/553,273   TIME: 11:00:06

Input Set : A:\3169us0pSeq.txt
Output Set: N:\CRF4\10242005\J553273.raw

```
 3 <110> APPLICANT: ITOH, Fumio
 4        HINUMA, Shuji
 5        KANZAKI, Naoyuki
 6        MABUCHI, Hiroshi
 7        YOSHIDA, Hiromi
 8        MATSUMOTO, Hirokazu
 9        WAKABAYASHI, Takeshi
11 <120> TITLE OF INVENTION: Receptor Antagonist
13 <130> FILE REFERENCE: 3169US0P
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C--> 15 <140> **CURRENT APPLICATION NUMBER: US/10/553,273**
C--> 16 <141> **CURRENT FILING DATE: 2005-10-12**
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18 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/005406
19 <151> PRIOR FILING DATE: 2004-04-15
21 <150> PRIOR APPLICATION NUMBER: JP 2003-114313
22 <151> PRIOR FILING DATE: 2003-04-18
24 <160> NUMBER OF SEQ ID NOS: 4
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 430
28 <212> TYPE: PRT
30 <213> ORGANISM: Human
32 <400> SEQUENCE: 1
33 Met Glu Gly Glu Pro Ser Gln Pro Pro Asn Ser Ser Trp Pro Leu Ser
34  1               5                  10                  15
35 Gln Asn Gly Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe
36              20                  25                  30
37 Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val
38          35                  40                  45
39 Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val
40      50                  55                  60
41 Cys Phe Ile Val Leu Lys Asn Arg His Met His Thr Val Thr Asn Met
42 65                  70                  75                  80
43 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys
44              85                  90                  95
45 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp
46              100                 105                 110
47 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser
48              115                 120                 125
49 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys
50      130                 135                 140
51 Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Val
52 145                 150                 155                 160
53 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser
54              165                 170                 175
```

```
RAW SEQUENCE LISTING                    DATE: 10/24/2005
PATENT APPLICATION:   US/10/553,273     TIME: 11:00:06

Input Set : A:\3169us0pSeq.txt
Output Set: N:\CRF4\10242005\J553273.raw
```

```
55 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Val Asp
56         180                 185                 190
57 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro
58         195                 200                 205
59 Glu Lys Gly Met Arg Arg Val Tyr Thr Thr Val Leu Phe Ser His Ile
60     210                 215                 220
61 Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr Ala Arg Ile Ala
62 225             230                 235                 240
63 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Pro Gly Gly Glu Glu Ala
64             245                 250                 255
65 Ala Asp Pro Arg Ala Ser Arg Arg Arg Ala Arg Val Val His Met Leu
66             260                 265                 270
67 Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu Trp Ala
68         275                 280                 285
69 Leu Leu Leu Leu Ile Asp Tyr Gly Gln Leu Ser Ala Pro Gln Leu His
70     290                 295                 300
71 Leu Val Thr Val Tyr Ala Phe Pro Phe Ala His Trp Leu Ala Phe Phe
72 305             310                 315                 320
73 Asn Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu Asn Phe
74             325                 330                 335
75 Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Arg Leu Cys Pro Arg Pro
76             340                 345                 350
77 Ser Gly Ser His Lys Glu Ala Tyr Ser Glu Arg Pro Gly Gly Leu Leu
78         355                 360                 365
79 His Arg Arg Val Phe Val Val Val Arg Pro Ser Asp Ser Gly Leu Pro
80     370                 375                 380
81 Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro
82 385             390                 395                 400
83 Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro
84             405                 410                 415
85 Gly Cys Ser His Leu Pro Leu Thr Ile Pro Ala Trp Asp Ile
86             420                 425                 430
87 <210> SEQ ID NO: 2
88 <211> LENGTH: 432
89 <212> TYPE: PRT
90 <213> ORGANISM: Rat
92 <400> SEQUENCE: 2
93 Met Glu Ala Glu Pro Ser Gln Pro Pro Asn Gly Ser Trp Pro Leu Gly
94             5                   10                  15
95 Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe
96         20                  25                  30
97 Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala
98         35                  40                  45
99 Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val
100    50                  55                  60
101 Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met
102 65                  70                  75                  80
103 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys
104             85                  90                  95
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RAW SEQUENCE LISTING   DATE: 10/24/2005
PATENT APPLICATION: US/10/553,273 TIME: 11:00:06

Input Set : A:\3169us0pSeq.txt
Output Set: N:\CRF4\10242005\J553273.raw

```
105 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp
106             100             105             110
107 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser
108             115             120             125
109 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys
110     130             135             140
111 Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe
112 145             150             155             160
113 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser
114             165             170             175
115 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp
116             180             185             190
117 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro
118             195             200             205
119 Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile
120     210             215             220
121 Tyr Leu Val Pro Leu Ala Leu Ile Val Val Met Tyr Val Arg Ile Ala
122 225             230             235             240
123 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Thr Glu Glu Ala
124             245             250             255
125 Val Ala Glu Gly Gly Arg Thr Ser Arg Arg Arg Ala Arg Val Val His
126             260             265             270
127 Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu
128     275             280             285
129 Trp Val Leu Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln
130     290             295             300
131 Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala
132 305             310             315             320
133 Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu
134             325             330             335
135 Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp
136             340             345             350
137 Pro Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Asn Arg
138             355             360             365
139 Leu Leu Arg Arg Arg Val Val Val Asp Val Gln Pro Ser Asp Ser Gly
140     370             375             380
141 Leu Pro Ser Glu Ser Gly Pro Ser Ser Gly Val Pro Gly Pro Gly Arg
142 385             390             395             400
143 Leu Pro Leu Arg Asn Gly Arg Val Ala His Gln Asp Gly Pro Gly Glu
144             405             410             415
145 Gly Pro Gly Cys Asn His Met Pro Leu Thr Ile Pro Ala Trp Asn Ile
146             420             425             430
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 432
149 <212> TYPE: PRT
150 <213> ORGANISM: Mouse
152 <400> SEQUENCE: 3
153 Met Glu Ala Glu Pro Ser Gln Pro Pro Asn Gly Ser Trp Pro Pro Ser
154             5             10             15
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```
155 Leu Asn Glu Ser Asp Ala Glu Thr Ala Pro Val Ala Ser Leu Thr Phe
156         20                  25                  30
157 Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala
158         35                  40                  45
159 Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val
160         50                  55                  60
161 Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met
162 65                  70                  75                  80
163 Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys
164             85                  90                  95
165 Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp
166         100                 105                 110
167 Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser
168         115                 120                 125
169 Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys
170         130                 135                 140
171 Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Leu
172 145                 150                 155                 160
173 Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser
174             165                 170                 175
175 Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp
176         180                 185                 190
177 Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro
178         195                 200                 205
179 Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile
180         210                 215                 220
181 Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr Ala Arg Ile Ala
182 225                 230                 235                 240
183 Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Ala Glu Glu Ala
184             245                 250                 255
185 Val Ala Glu Gly Gly Arg Ala Ser Arg Arg Arg Ala Arg Val Val His
186         260                 265                 270
187 Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu
188         275                 280                 285
189 Trp Val Leu Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln
190         290                 295                 300
191 Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala
192 305                 310                 315                 320
193 Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu
194             325                 330                 335
195 Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp
196         340                 345                 350
197 Leu Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Gly Arg
198         355                 360                 365
199 Leu Leu Arg Arg Arg Val Val Val Asp Val Gln Pro Ser Asp Ser Gly
200         370                 375                 380
201 Leu Pro Ser Glu Ser Gly Pro Ser Ser Gly Val Pro Gly Pro Asn Arg
202 385                 390                 395                 400
203 Leu Pro Leu Arg Asn Gly Arg Val Ala His Gln Asp Gly Pro Arg Glu
```

```
204                   405                   410                   415
205 Gly Pro Gly Cys Asn His Met Pro Leu Thr Ile Pro Ala Trp Asn Ile
206                   420                   425                   430
207 <210> SEQ ID NO: 4
208 <211> LENGTH: 180
209 <212> TYPE: PRT
210 <213> ORGANISM: Human
212 <400> SEQUENCE: 4
213 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr
214 1               5                   10                  15
215 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met
216             20                  25                  30
217 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg
218         35                  40                  45
219 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp
220     50                  55                  60
221 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys
222 65                  70                  75                  80
223 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val
224                 85                  90                  95
225 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser
226             100                 105                 110
227 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro
228         115                 120                 125
229 Gln Arg Phe Gly Arg Thr Thr Thr Ala Lys Ser Val Cys Arg Met Leu
230     130                 135                 140
231 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu
232 145                 150                 155                 160
233 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln
234                 165                 170                 175
235 Lys Gln Ser Arg
236             180
```

`, . . -`

VERIFICATION SUMMARY   DATE: 10/24/2005
PATENT APPLICATION: **US/10/553,273**   TIME: 11:00:07

Input Set : **A:\3169us0pSeq.txt**
Output Set: **N:\CRF4\10242005\J553273.raw**

L:15 M:270 C: Current Application Number differs, Replaced Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date